

PHENIX WEEKLY PLANNING



1/07/2010

Don Lynch

Ongoing Tasks for Run 10

Task

Start Date

End Date

Install rack components in RPC3 N racks

in progress

1/31/10

Attach cables to RPC3 N racks and to Detector $\frac{1}{2}$ octants

in progress

1/31/10

Install heaters and thermostat(s) for RPC3N thermal control

in progress

1/31/10

Send mass flowmeters out for recalibration (DC/PC, MuID, TOF.W)

In Progress

1/31/10

AH Crane 110 switch for lockout

In Progress

6/30/09

PHENIX Startup Checklist Status

Item

Responsibility

Status

Item 1: ESRC relevant items completed

Wood Stairs

Phillips

Post Start

Update Work procedures

Cirigliaro, Lynch

Post Start

Item 2: Bypass Switch Arc Label

Giannotti

Post Start

Item 4: HBD Mock Up

Lynch

After Run 10

Item 11: Fire Pull Box

Philips

Post Start

Item 12: Dumb Waiter

Lynch

Waiting For
LSC Response

This Week

RUN 10 Support

Catch up on Training

Design Work for 2010 upgrades

Support for Future Upgrades

Prep for 2010 Shutdown

Short access (2 hrs) Today

AC issues ?

TECHNICAL SUPPORT NOON

Next Week:

(1st) Maintenance Day: Jan 13

- 0800 open IR's
- 1400 begin tunnel sweeps
- 1500 begin IR sweeps
- Maintenance days every two weeks from then on

Tasks:

RPC3 N electronics, racks, temperature monitoring, grounding issues, etc.

HBD ?

Other subsystem support?

Result: 3 new beampipe sections

Alum/Be
central section

North 1-5/8" to
3" transition

South 1-5/8" to
3" transition

Existing bellows
and components
south of here

Existing bellows
and components
north of here

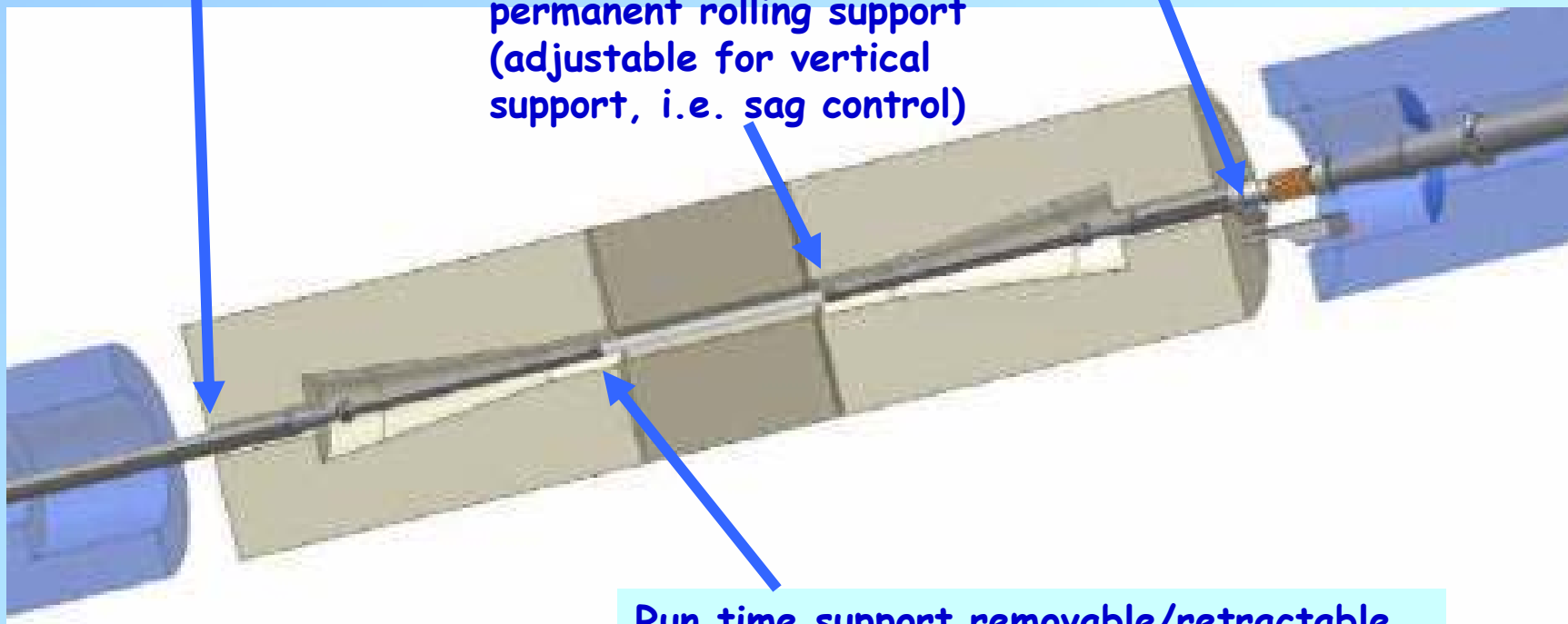
Beampipe supports

TECHNICAL SUPPORT NOOS

permanent rolling support,
in BBC cavity, adjustable
when MMS is south, CM
is north. New support,
with fine adjustment in X
and Y

#1 existing permanent fixed
support → Change to allow for
finer X and Y adjustment,
adjustable when CM is south

permanent rolling support
(adjustable for vertical
support, i.e. sag control)



Run time support removable/retractable
for CM move south (adjustable for
vertical support only i.e. sag control)

Old Beampipe De-Installation scheme.

1. Prior to shutdown: PHENIX Choreography for EC, MMS and CM for beampipe installation. Installation support parts, arrange AH tracks as appropriate.
2. Standard Commencing shutdown tasks: prep EC for move, close north & south gate valves, take down collars, move MMS south, Move EC to AH, Cart to IR
3. Remove MMS lampshade
4. Remove HBD and RXNP, remove cart
5. Break Vacuum at Bellows between CM and MMS and between MMS and MuID. Temporary support for south end of Be/SS pipe.
6. Move MMS to AH MMS with south 3-5 transition and bellows, then remove beampipe and bellows.
7. Move CM south. Separate Be/SS beampipe from north bellows and remove.
8. (?) Disconnect north 3-5 transition from inside north square hole. Remove bellows from south end and transition through north tunnel (?)

New Beampipe Installation Scheme

1. Rework north bellows with antisquirrm guide rods
2. Install new north 3-5 transition (including bakeout wrap and rolling supports) through north tunnel (?) and modified north bellows with temporary support on south end
3. Install new fine adjustment support for north end of north 1-5/8" to 3" transition, new/modified CM Be beampipe vertical supports, BBC center beampipe support and temporary/pre-alignment support.
4. Pre-assemble north and south 1-5/8" to 3" transitions to new Be beampipe.
5. Install central beampipe pre-assembly into CM and attach to north bellows.
6. Pre-align the central beampipe to RHIC nominal beam path using north and south fine adjustment supports, temporary south support and central sag supports.
7. Install new south 3" to 5" transition and existing south bellows in MMS
8. Install new 5" spool insouth square hole with temporary support.
9. Move CM North adjust central beampipe assembly alignment
9. Move MMS into IR and align with CM. Attach south bellows to central beampipe assembly and south end of south 3" to 5" transition to new south spool.

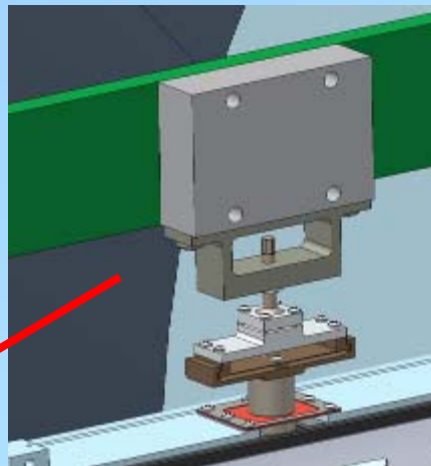
New Beampipe Bakeout Scheme

1. TBD

TECHNICAL SUPPORT NOON

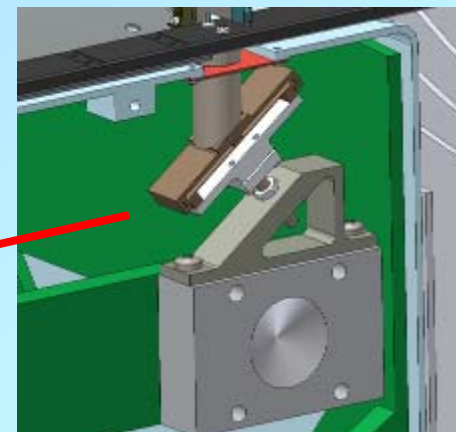
VTX Installation Plan

Kinematic mounts for mating east and west detector halves

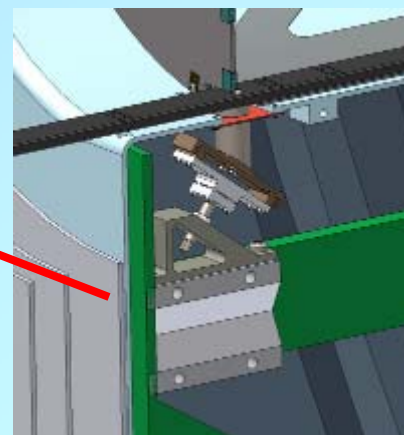


2 DOF (Y & Z)

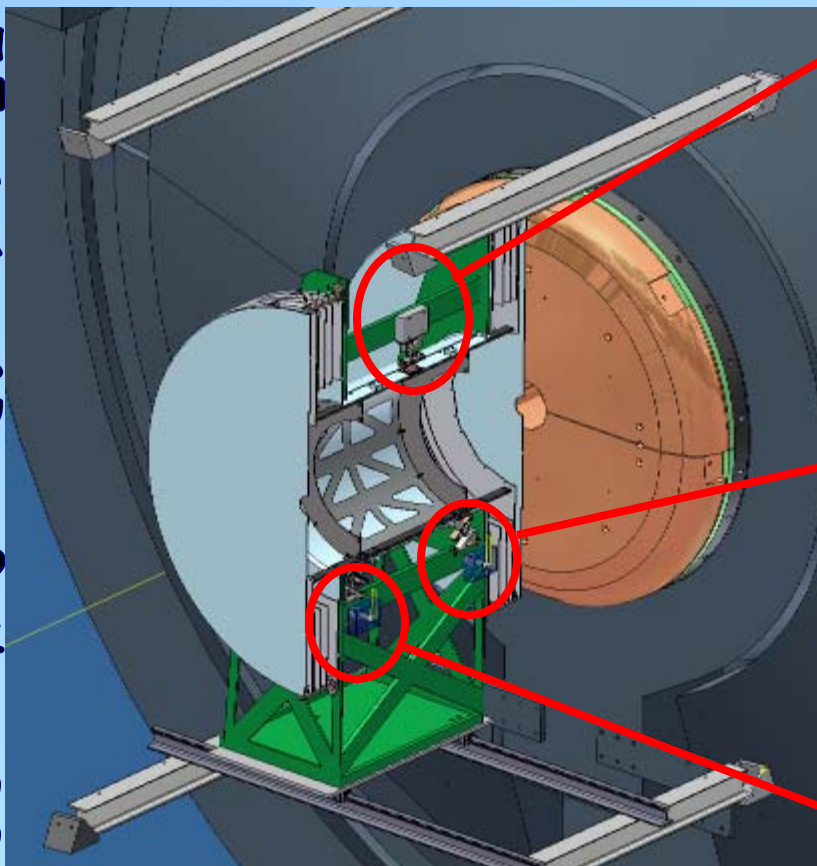
0 DOF



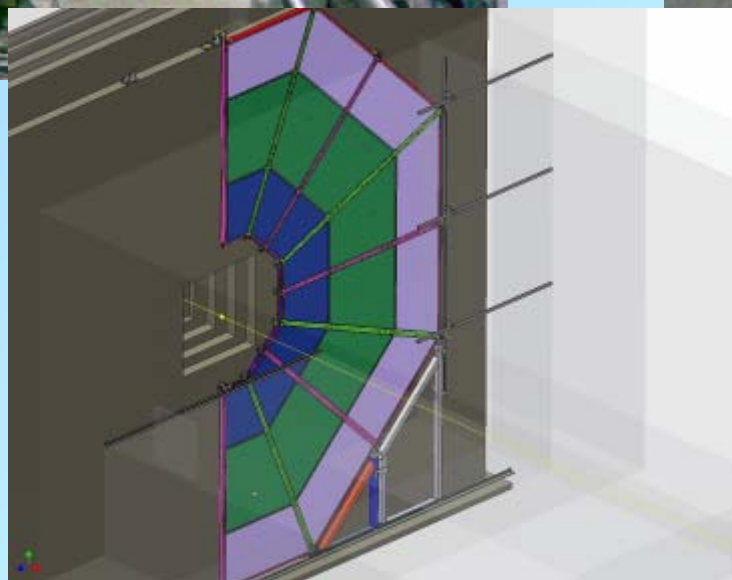
6 interface points
w/ HYTEC



1 DOF (Z)



RPC3 South Installation Plan



2009 Building Maintenance Issues

- Roof leaks in utility bathroom at northwest corner behind tech offices, over door between rack room and assembly hall and over door between control room and elect. ass'y room.
- Heat wrap tape for trailer bathroom toilet drains to prevent freeze/clogging in winter.
- General maintenance for Trailer Offices and Gas Mixing House stairs, ramps and siding, gutters, etc. (cleaning and repairing worn/rotted wood): Carter has placed work orders
- Trailer Office Modifications planning in progress



Run 10 Tasks

Start Date End Date

Run 10	In progress	6/1
VTX Fabrication and Installation Plan (1st Draft)	Done	Done
RPC3 South Fabrication and Installation Plan (1 st Draft)	Done	Done
Receive New Beampipe	On Order	1/31
Design Beam pipe supports	In progress	1/15
Update RPC3 N design for RPC3 S	In progress	1/15
Design support structure, alignment scheme for VTX	In progress	1/31
Fabricate beam pipe supports	1/15	4/1
Beampipe NEG coating (CERN)	2/1	5/1
Fabricate/procure parts for RPC3 S installation	1/1	4/1
Fabricate/procure parts for VTX installation	2/1	5/1
End of run 10	6/1	6/1
Prep IR for shutdown	6/1	7/1
Complete unfinished business for MuTrgr FEE & RPC3 North	6/1	8/1
Install Beam pipe	7/1	10/1
Install VTX	8/1	10/1
Install RPC3 South	6/1	10/1

Shutdown 2010 Tasks

Start Date End Date

TECHNICAL SUPPORT NOON

Prep IR for shutdown	6/1	7/1
Complete unfinished business for MuTrgr FEE & RPC3 North	6/1	8/1
MuTrigger MMS cable tray		
RPC3N electronics and gas system completion		
Remove HBD and RXNP		
Install Beam pipe	7/1	10/1
Install VTX	8/1	10/1
Install RPC3 South	6/1	10/1

4. PHENIX Procedure Review Current Status:

147 Procedures Identified

- 80 Made Inactive (not currently in use, will require revision to re-activate if and when necessary, available for reference purposes)
 - 12 CAD procedures relevant to PHENIX, all are current and up-to-date.
All currently under review,
3 to be de-activated
 - 38 PHENIX approved procedures.
4 are currently under review
36 are current and up-to-date
 - 15 Proposed/Draft Procedures (never previously formalized)
- New Spreadsheet Tracking Application to keep track of Procedure revisions and updates. Web retrieval of latest procedures soon.

Safety, Security, etc.

1. New BNL Safety Web site:

<http://intranet.bnl.gov/safety/>



Includes descriptions of safety incidents, updates on policies, standards and ongoing investigations, safety statistics, report a safety hazard, submit a safety suggestion, and more.

2. Safety S2 Proposals: Heated runners and stair mats to prevent ice on stairs and walkways between main building and gas mixing house and between main building and trailer offices.



Where To Find PHENIX Engineering Info



JETS are in the playoffs!!

vs BENGALS in Cincinnati, Saturday 4:30 PM NBC TV

Links for the weekly planning meeting slides, archives of past meeting slides, long term planning, pictures, videos and other technical info can be found on the PHENIX Engineering web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

